



MONITORING RELAY ATTACHABLE TO CONTACTOR  
 3RT2. SIZE S0 BASIC,  
 ANALOG ADJUSTABLE APPARENT CURRENT  
 MONITORING 4 - 40A,  
 50-60 HZ,  
 2-PHASE SUPPLY 24 V AC/DC 1 CO CONTACT  
 MONITORING FOR CURRENT  
 OVERSHOOT/UNDERSHOOT PHASE FAILURE,  
 WIRE BREAK WITH OR W/O ERROR LOG ON-DELAY 0-60  
 S SPURIOUS PEAK SUPPR.0-30 S SWITCHING  
 HYSTERESIS 6% SPRING-LOADED CONNECTION

General technical data:		
product brand name		SIRIUS
Product designation		multi-phase current monitoring
Design of the product		multi-phase current monitoring
Size of the contactor / can be combined / company-specific		S0
Protection class IP		IP20
<ul style="list-style-type: none"> <li>on the front</li> <li>of the terminal</li> </ul>		IP20
Insulation voltage / for overvoltage category III according to IEC 60664 / with degree of pollution 3		
<ul style="list-style-type: none"> <li>rated value</li> </ul>	V	690
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
<ul style="list-style-type: none"> <li>during storage</li> <li>during operating</li> </ul>	°C	-40 ... +80
	°C	-25 ... +60
Electromagnetic compatibility		IEC 60947-1 / IEC 61000-6-2 / IEC 61000-6-4
EMC immunity to interference		
<ul style="list-style-type: none"> <li>according to IEC 60947-1</li> </ul>		ambience A (industrial sector)
EMC emitted interference		
<ul style="list-style-type: none"> <li>according to IEC 60947-1</li> </ul>		ambience A (industrial sector)

<b>Resistance against shock</b>		15g / 11 ms
<b>Resistance against vibration</b>		10 ... 55 Hz / 0.35 mm
<b>Impulse voltage resistance / rated value</b>	kV	6
<b>Operating apparent output / rated value</b>	V·A	4
<b>Rating / Rated value</b>	W	2.5
<b>Reference code</b>		
<ul style="list-style-type: none"> <li>• according to DIN 40719 extended according to IEC 204-2 / according to IEC 750</li> <li>• according to DIN EN 61346-2</li> </ul>		K
		K
<b>Mechanical operating cycles as operating time</b>		
<ul style="list-style-type: none"> <li>• typical</li> </ul>		10,000,000
<b>Electrical operating cycles as operating time / at AC-15 / at 230 V</b>		
<ul style="list-style-type: none"> <li>• typical</li> </ul>		100,000
<b>Adjustable response delay time</b>		
<ul style="list-style-type: none"> <li>• when starting</li> </ul>	s	0 ... 60
<ul style="list-style-type: none"> <li>• with lower or upper limit violation</li> </ul>	s	0 ... 30
<b>Standby time / for restart after fault</b>	s	0.3
<b>Phase number</b>		3
<b>Number of monitored phases</b>		2
<b>Product function</b>		
<ul style="list-style-type: none"> <li>• overcurrent monitoring</li> <li>• undercurrent monitoring</li> <li>• overcurrent and undercurrent monitoring</li> <li>• apparent current monitoring</li> <li>• active current monitoring</li> <li>• undercurrent recognition DC</li> <li>• undercurrent recognition of 1 phase</li> <li>• overcurrent recognition DC</li> <li>• current window recognition DC</li> <li>• undercurrent recognition of 3 phases</li> <li>• overcurrent recognition of 1 phase</li> <li>• tension window recognition of 3 phases</li> <li>• tension window recognition of 1 phase</li> <li>• phase sequence recognition</li> <li>• can be activated or deactivated / phase sequence recognition</li> <li>• self-reset</li> <li>• reset external</li> <li>• manual RESET</li> </ul>		Yes Yes Yes Yes No No No No No No No No No No No No Yes No Yes
<b>Adjustable response current</b>		

• 1	A	4 ... 40
• 2	A	4 ... 40
<b>Relative metering precision</b>		
• with regard to measuring range limit	%	10
<b>Type of current / for monitoring</b>		AC
<b>Measurable current / for AC</b>	A	4 ... 40
<b>Relative switching hysteresis / for measured current value</b>	%	6.25
<b>Response time / maximum</b>	ms	300
<b>Relative repeat accuracy</b>	%	2
<b>Temperature drift per °C</b>	%/°C	0.1
<b>Current-carrying capacity</b>		
• for permanent overcurrent / maximum permissible	A	40
• for overcurrent duration < 1 s / maximum permissible	A	800

#### Supply voltage:

<b>Type of / supply voltage</b>		AC/DC
<b>Supply voltage frequency / 1</b>	Hz	50 ... 60
<b>Supply voltage / 1</b>		
• for DC / rated value	V	24
• at 50 Hz / for AC / rated value	V	24
• at 60 Hz / for AC / rated value	V	24
<b>Stored energy time / supply voltage failure / minimum</b>	ms	10

#### Auxiliary circuit:

<b>Design of the contact element / of the output relay</b>		closed-circuit current
<b>Operating current / at 17 V / minimum</b>	mA	5
<b>Number of change-over switches</b>		
• for auxiliary contacts		1
<b>Operating current / of the auxiliary contacts</b>		
• at AC-15		
• at 24 V	A	3
• at 230 V	A	3
• at 400 V	A	3
• at DC-13		
• at 24 V	A	1
• at 125 V	A	0.2
• at 250 V	A	0.1

#### Inputs/ Outputs:

#### Short-circuit:

**Installation/mounting/dimensions:**

<b>mounting position</b>		any
<b>Mounting type</b>		direct mounting
<b>Width</b>	mm	45
<b>Height</b>	mm	109
<b>Depth</b>	mm	92
<b>Distance, to be maintained, to the ranks assembly</b>		
• forwards	mm	0
• backwards	mm	0
• upwards	mm	0
• downwards	mm	0
• sideways	mm	0
<b>Distance, to be maintained, to earthed part</b>		
• forwards	mm	6
• backwards	mm	0
• upwards	mm	6
• downwards	mm	6
• sideways	mm	6
<b>Distance, to be maintained, conductive elements</b>		
• forwards	mm	6
• backwards	mm	0
• upwards	mm	6
• downwards	mm	6
• sideways	mm	6

**Connections:**

<b>Design of the electrical connection</b>		
• for main current circuit		spring-loaded terminals
• for auxiliary and control current circuit		spring-loaded terminals
<b>Product function</b>		
• removable terminal for main circuit		No
• removable terminal for auxiliary and control circuit		Yes
<b>Type of the connectable conductor cross-section</b>		
• for main contacts		
• solid		1x (1 ... 10 mm <sup>2</sup> )
• finely stranded		
• with conductor end processing		1x (1 ... 6 mm <sup>2</sup> )
• without conductor final cutting		1x (1 ... 6 mm <sup>2</sup> )
• for AWG conductors / for main contacts		1x (18 ... 8)
• for auxiliary contacts		

<ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded <ul style="list-style-type: none"> <li>• with conductor end processing</li> <li>• without conductor final cutting</li> </ul> </li> <li>• for AWG conductors / for auxiliary contacts</li> </ul>	1x (0.5 ... 4 mm <sup>2</sup> ), 2x (0.5 ... 2.5 mm <sup>2</sup> )  2x (0.25 ... 1.5 mm <sup>2</sup> )  2x (0.25 ... 1.5 mm <sup>2</sup> )  2x (24 ... 16)
<b>Tightening torque</b> <ul style="list-style-type: none"> <li>• with screw-type terminals</li> </ul>	N-m      0.8 ... 1.2

**Certificates/approvals:**

<b>Verification of suitability</b>	CE / UL / CSA
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<b>General Product Approval</b>	<b>EMC</b>	<b>Declaration of Conformity</b>
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**Test Certificates**

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

**Shipping Approval**



**Shipping Approval other**



[Environmental Confirmations](#)

**UL/CSA ratings:**

<b>Contact rating designation / for auxiliary contacts / according to UL</b>	B300 / R300
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**Reliability figures:**

<b>Protection against electrical shock</b>	finger-safe
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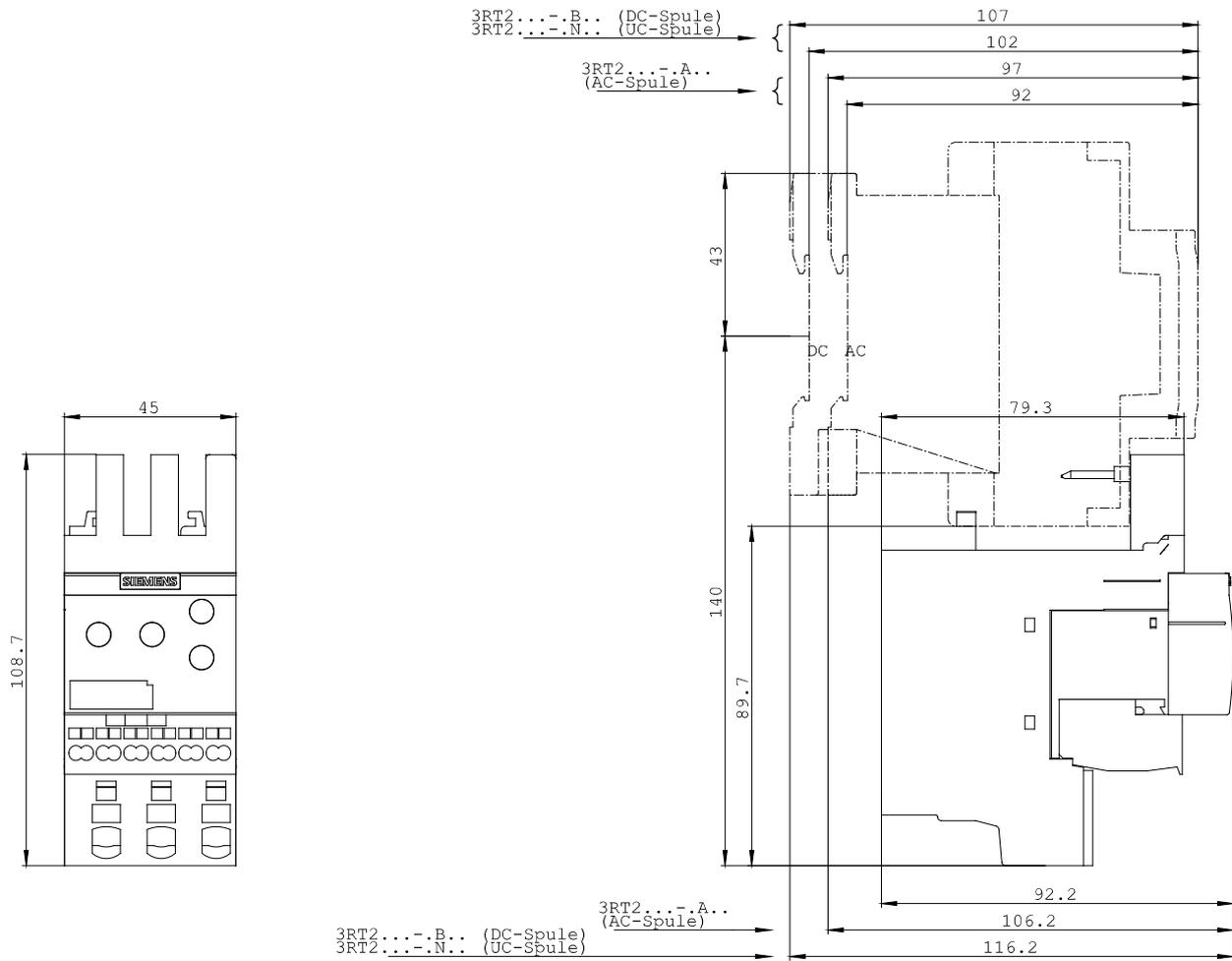
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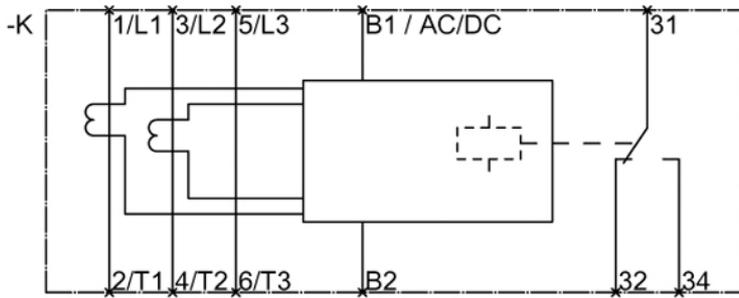
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last change:

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